## KEMET Part Number: C0402C189C5GACTU

(C0402C189C5GAC7867)



SMD Comm C0G, Ceramic, 1.8 pF, +/-0.25 pF, 50 VDC, C0G, SMD, MLCC, Ultra-Stable, Low Loss, Class I, 0402



| Dimensions |                 |  |
|------------|-----------------|--|
| Chip Size  | 0402            |  |
| L          | 1mm +/-0.05mm   |  |
| W          | 0.5mm +/-0.05mm |  |
| Т          | 0.5mm +/-0.05mm |  |
| S          | 0.3mm MIN       |  |
| В          | 0.3mm +/-0.1mm  |  |

| Packaging Specifications |                        |  |
|--------------------------|------------------------|--|
| Packaging:               | T&R, 180mm, Paper Tape |  |
| Packaging Quantity:      | 10000                  |  |

| General Information |   |
|---------------------|---|
| Series:             | SMD Comm C0G                                  |
| Style:              | SMD Chip                                      |
| Description:        | SMD, MLCC, Ultra-Stable, Low<br>Loss, Class I |
| Features:           | Ultra-Stable, Low Loss, Class I               |
| RoHS:               | Yes   |
| Termination:        | Tin   |
| Marking:            | No  |
| AEC-Q200:           | No  |
| Component Weight:   | 1060 ug                                       |
| Shelf Life:         | 78 Weeks                                      |
| MSL:                | 1   |

| Specifications  |                           |  |
|---|---------------------------|--|
| Capacitance:  | 1.8 pF                    |  |
| Measurement Condition:  | 1 MHz 1.0Vrms             |  |
| Capacitance Tolerance:  | +/-0.25 pF                |  |
| Voltage DC:   | 50 VDC                    |  |
| Dielectric Withstanding<br>Voltage:                                 | 125 VDC                   |  |
| Temperature Range:  | -55/+125°C                |  |
| Temperature Coefficient:  | COG                       |  |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC): | 30 ppm/C, 1MegaHz 1.0Vrms |  |
| Dissipation Factor:   | 0.1% 1 MHz 1.0Vrms        |  |
| Aging Rate:   | 0% Loss/Decade Hour       |  |
| Insulation Resistance:  | 100 GOhms                 |  |

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